



**19th BASIC LAB COURSE ON DIAGNOSTIC EM IN
INFECTIOUS DISEASES
Robert Koch Institute, Berlin**

Program

Monday, April 23, 2012

10:00	Registration	Room U1.018
10:15	Introduction of course participants and staff	
10:30	Lecture: Introduction to diagnostic electron microscopy of infectious diseases	
11:00	Lab tour	
11:15	Practical work part I: Formation of three groups A, B, C: Cleaning of grids, selection of proper EM-grids Preparation and floating of plastic film (Pioloform F) and check for hydrophilicity of EM grids	Rooms U1.010/ U1.012/EG.017
12:30	Lunch break	Room EG.060 (Mensa)
13:15	Demo for all groups: Carbon re-inforcement of the plastic film on EM grids Glow discharge	Room U1.010
13:45	Practical work part II: Group A, B, C Negative staining of inactivated viruses, bacteria and spores using different stains Alcian blue pre-treatment of grids	Rooms U1.010/ U1.012/EG.017
15:45	Coffee break	Room U1.018
16:00	Electron microscopy of samples	Rooms U1.020/ U1.021/U1.024
18:00	End of the practical work for the first day	
19:00	Diner at the restaurant "Lindengarten "	



Tuesday, April 24, 2012

09:00	Coffee and discussion, decision on demonstrations	Room U1.018
09:15	Practical work part III: Group A, B, C Immuno-negative staining of bacterial flagella <u>or</u> Airfuge sedimentation of viruses compared with conventional preparation	Rooms U1.010/ U1.012/EG.017
10:30	Coffee break	Room U1.018
10:45	Continuation of practical work and electron microscopy Immuno-negative staining of bacterial flagella <u>or</u> Airfuge sedimentation of viruses compared with conventional preparation	Rooms U1.010/ U1.012/EG.017
12:30	Lunch break	Room EG.060
13:15	Workshop photo in front of the main entrance of the RKI	
13:30	Electron microscopy of samples	Rooms U1.020/ U1.021/U1.024
15:00	Final discussion Results, problems, questions	Room U1.018
16:00	End of the course	

Further options: The program is flexible in detail. Please, do not hesitate to present your proposals, problems, questions and interesting results during the course. We offer a couple of demonstrations (e.g. scanning EM, ultra microtomy, rapid thin section EM).